

Reception Hall Aquastyle

Video display



Installation and user manual



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Upon receipt, always check the product for damage during shipment. If any is found, you may file a damage claim with the carrier.

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I - Overview

The Reception Hall Aquastyle is an indoor video display.

- It is used to display the date, the local time, the pools water temperatures, the air temperature and customised information for the public.
- Display 16/9, 22" (56 cm) or 32" (81 cm), with a resolution of 1920 x 1080 pixels.
- The display is driven by mini PC (supplied).
- A HF radio receiver gathers the temperatures (sent by the probes) and the local time (send by the master clock)
- Additional information are imported via a USB flash drive (2 GB).
- A time slot allows the programming of the sleep mode of the screen.
- Power supply: 115 / 230 V - 50/60 Hz.

Checking the equipment

You should have received:

- One display with miniature PC, wall mounting bracket and mounting hardware.
- One USB flash drive.
- The software burnt on a CD
- This manual.

The CD supplied with your equipment contains the software application that allows you to program the display. The programming can therefore be done on a PC and transferred to the mini PC by mean of the USB flash drive.

Caution: the installation and maintenance of this equipment must be carried out only by authorized personnel.

This product is specified for indoor use only.

It is supplied by 115 or 230V AC.

The installation must comply with the IEC 364 standard (NFC 15-100 for France).

A 10 A circuit breaker, easily accessible, must be installed in the power supply line. This circuit breaker provides the protection of the equipment and, for safety, must tripped off during maintenance.

The installation must be completed before applying the power to the equipment.

Any modifications to the product will void the warranty.

The Bodet company cannot be held liable for any accident resulting from a use of the equipment that does not comply with the instructions of this manual.

II - Mechanical installation

The Aquastyle must be installed in a location that ensures a good HF reception. The location must be free of any electromagnetic disturbances (transformer, cathode ray tube, ...).

- The display complies with the VESA FDMI standard (Flat Display Mounting Interface).

II.1 Stand mounting

The Aquastyle is supplied with a wall mounting bracket.

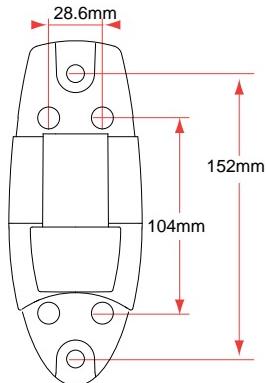
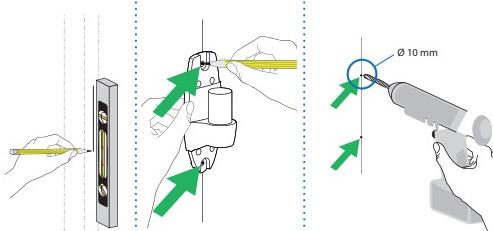
As an option, a stand enables the Aquastyle to be hung of a ceiling or simply rest on a flat surface (table, shelf, ...). Refer to the manual of this stand.

II.2 Wall mounting

a - Bracket installation

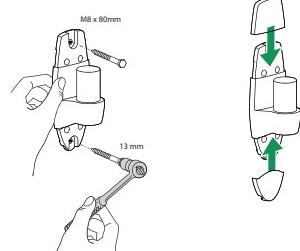
Make sure that the wall is strong enough to support the equipment.

Mount the Aquastyle bracket with the 2 Ø8mm screws supplied with it and the proper wall plugs.



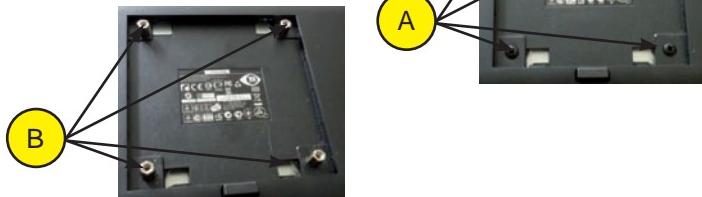
Note : For an installation on a wall other than a concrete wall the drilling must be adapted to the material (for example: Ø5 for wood).

After tightening the screws, put the covers back on to hide the screws.

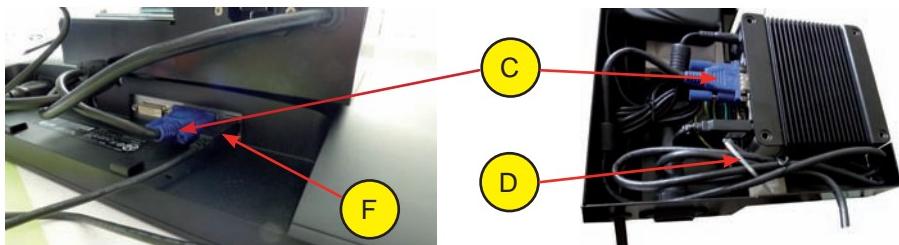


b - Bracket installation on the screen

Remove the 4 screws (A) on the back of the screen and replace them by the supplied spacers (B).

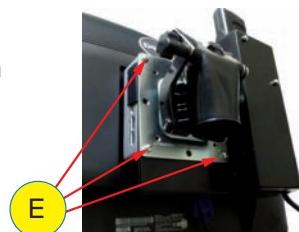


Connect the video cable (C) between the mini PC and the screen,

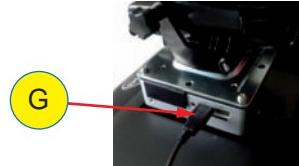


Coil up the excess cable beside the mini PC and secure it with the supplied tie-wrap (D)

Mount the mini PC on the back of the screen with the supplied 4 screws (E).



For the 22" screens, connect the screen (F) to the USB port (G) of the mini PC.



III - Electrical installation

The reception hall Aquastyle accepts a 115 to 230V - 50/60Hz supply voltage. Connect the supplied power cable to a circuit breaker (10A maximum) which must be tripped off before performing any maintenance on the Aquastyle.

The «time» and «temperature» data are obtained via a HF radio receiver. The receiver gathers the temperatures from the probes connected to a HF transmitter and the time signal from a Nanotime master clock ensuring a perfect precision.

Any hardware modification must be performed with power removed from the Aquastyle.

III.1 Wireless time synchronisation (DHF)

The reception hall Aquastyle can be radio synchronised by Bodet DHF Nanotime. The synchronisation is accomplished by pairing the Aquastyle Video with the Nanotime. The Aquastyle, shipped out of factory, was configured with a Nanotime programmed on channel 1.



If needed (transmitter channel change, new installation, ...), it is possible to put the display in «Initialisation» mode (see “Appendix 1 - Pairing procedure”, page 19.)

III.2 Wireless temperature synchronisation (THF)

Pairing is not necessary. The transmission of temperature is accomplished by the Aquastyle temperature probes radio controller (see Pool temperature radio transmitter manual).

IV - Use of the reception hall Aquastyle

When the reception hall Aquastyle is powered up for the first time, parameters must be set, see "IV-1 Parameter setting", page 8.

As soon as the reception hall Aquastyle is turned on it starts broadcasting the memorized information. It receives the time and temperature data sent by radio.

If the time signal is not received the Aquastyle displays the time of the mini PC (default).

If the temperature signal is not received the Aquastyle displays « --. °C » or «-- °C ».



If you wish to modify the display, this must be done with the supplied software application on a PC with a Windows OS (XP, Vista or Seven).

The new display will be saved on a USB flash drive.

The flash drive will hold:

- The parameters which are necessary to the mini PC and display operation
- The various pages which will be displayed on the screen.
- The record of the probes configuration.

As soon as the USB flash drive is plugged in the mini PC, the data contained in the flash drive will be copied automatically in memory.

The display of the new screen pages starts as soon as the transfer is completed.

IV-1 Parameter setting

The reception hall Aquastyle must be configured when it is installed.

To proceed with the configuration, a keyboard must be connected to a USB port of the mini PC or to the USB hub of the monitor.

IV-1.1 - First screen of the parameter setting

At installation time:

- Insert the supplied BODET USB flash drive named «BODET_AQUA2» in one USB port of the mini PC or in the USB hub of the 22" monitor. The flash drive contains all the necessary directories and files.
- Turn on the mini PC and wait for the screen of first time use:



1 Properties of the mini PC:

Components to specify the time zone, the local time, the date and the language of the display.

2 Save and Cancel:

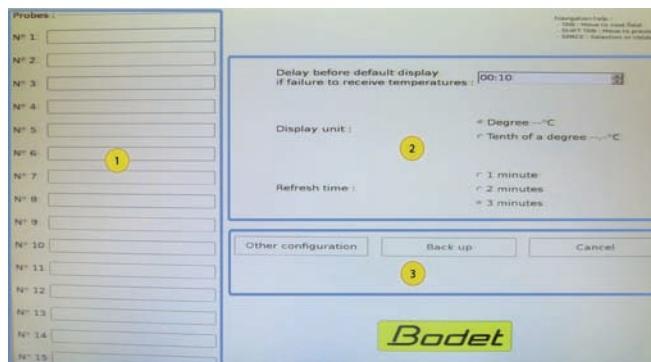
A button «Save» to save the data into the mini PC and a button «Cancel».

- Select the time zone, set the time and the date (automatic if the DHF synchronisation is used), select the language.
- Validate with the «Space» bar.

IV-1.2 - Second screen of the parameter setting

After validation of the first screen, the following page is displayed on the screen:-:

You can also access this page by typing «boden» on the keyboard while holding down the Ctrl key (Ctrl + boden).



1 Probes:

15 lines table that lets you assign a name of area to each probe. A field that is left blank is interpreted by the system as a non-existent probe. The probe number corresponds to its id (position of the probes on the wireless temperature probes card and the dips setting).

2 Sequence properties.

Group that lets you set:

- a delay before which the default screen will be displayed in case of failure to receive the temperature data
- the unit for the temperature display
- the temperature refresh rate.

3 Other configuration, Backup and cancel.



This screen lets you configure the temperature probes by giving them names of zones (logical names: zone 1, zone 2, ...) and set general parameters of the display operation: delay before which a default display will be put on the screen in case of failure to receive the temperature radio signal, the unit that will be used to display the temperatures (degree or tenth of degree)and the temperature display refresh time.

The modifications are saved directly in the sequence configuration file (modification of the sequence parameters contained on the USB flash drive). Therefore a Bodet flash drive must be connected to the mini-PCII before performing a backup. If no flash drive is detected a warning message will be displayed. The fields that make up this screen are initialised with the values of the sequence contained in the Bodet flash drive.

In case of need, the «Other configuration» button lets you access the first parameter setting screen; but be aware that any modifications done on the second parameter setting screen will be lost. It is therefore recommended to backup first, or to access the first parameter setting screen before proceeding to modifications on the second screen.

IV-2 Time setting

When the Aquastyle is not synchronised by a master clock, an eventual drift of the mini-PC time base can be corrected by typing on the keyboard the following key sequence: Ctrl + time (hold down the «Ctrl» key while typing «time»).

V - Screens configuration

V-1 Principle

The software application supplied on the CD will let you create and modify the display sequences of the reception hall Aquastyle.

Once created (or modified) the display sequence is saved on the supplied USB flash drive.

Warning - The flash drive used for the data transfer will be formatted and the data that it might hold will be erased.

The data is copied in memory and the display starts as soon as the USB flash drive is installed on the reception hall Aquastyle.

V-2 Software application installation

The software application runs only on PCs equipped with a Windows OS. Insert the CD in the reader.

If the automatic execution is activated, execute the setup when Windows asks for your authorisation, if not access the root of the CD and click on the exec file «`bodet_aquastyle_setup.exe`».

Select the language that you want to use for the installation and when running the application. It is always possible to change the language by using the «Language» button of the welcome screen

Once the application is installed on your PC and the setup is finished, the Aquastyle software is ready for use. During the installation you can create a shortcut on the Windows Desktop.

A directory named «Aquastyle» was created in the menu «Start»-«Programs» where you can find a link to uninstall the program while keeping all your backup copies for future use.

NOTE: Some antivirus (particularly avast! Antivirus) can corrupt part of the installation. In this case we recommend to deactivate the antivirus during the installation.

V-3 - General information

The software application is structured as a logical succession of screens.

- Home page (Welcome Screen)

- Choice of the language,
- Modification of the sequence contained in the USB flash drive,
- Copy the sequence saved in the PC onto the USB flash drive. (Warning, all the information contained on the flash drive will be erased).

- Parameter Setting Screen

- Selection of the default parameters for the new pages,
- Assignment of names and offset for the various temperature probes,
- Add or remove free pages or sensors information pages within the sequence.

- Sensor Information Pages Editor

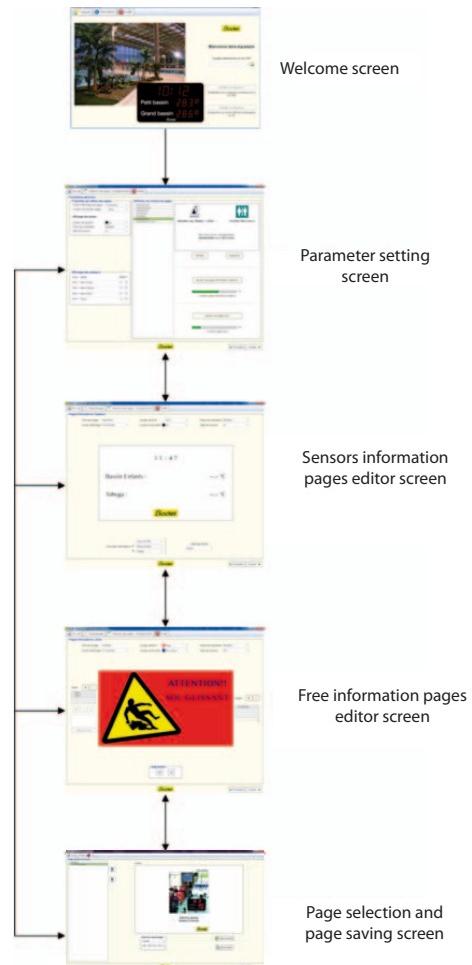
- Selection of properties common to all the pages you will create (name, background and font colours, font type and size, duration of display),
- Number and content of the lines of information,
- Size of the Bodet logo.

- Free Information Pages Editor

- Selection of the properties of the page (name, background and font colours, font type and size, duration of display),
- Add/remove text,
- Add/remove images,
- Alignment of texts and images.

- Screen for Page Selection and Sequence Backup

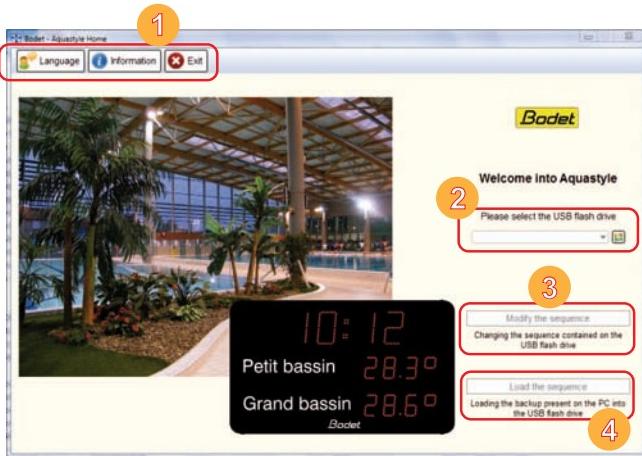
- Sorting of the pages within the sequence
- Preview of the sequence,
- Permanent display / Time slot,
- USB flash drive and PC page saving.



V-4 How to use the application, how to create screen sequence

Start the Aquastyle program.

Welcome screen



1 Options tool bar:

3 buttons that let you change the language, display information about the software application and exit the application

2 List of USB flash drives:

A list that lets you choose the Aquastyle USB flash drive. You can refresh the scrolling list with this button.

3 Button « Modify the sequence »:

This button opens a work session from the sequence contained in the chosen USB flash drive if it is the Bodet Aquastyle flash drive.

4 Button « Load the sequence » :

This button lets you load the last version saved on the PC onto the selected flash drive.

Warning: the flash drive is formatted (content completely erased) before loading.

The USB flash drive contains a default sequence that is used during the first installation.

This sequence can be edited by using the «Modify the sequence» button.

In case of mishandling, loss of the flash drive or data corruption, the backup sequence contained in the PC can be reloaded into the flash drive by using the «Load the sequence» button. .

If you wish to save several different applications (for example: week-end special, school special ...) you must create them on separate flash drives by using the «Load the sequence» button. But be aware that you must first save the PC sequence before making any modification.

Parameter setting screen.



This screen lets you set the main parameters.

- Page display duration, from 1 to 30 seconds,
- Pages background colour (16 colours),
- Text font,
- Font size,
- Font colour.

These parameters are set as default for all screens but they can be changed on each page..

The Sensors information pages allow displaying the temperatures measured by the sensors installed in the different areas of the pool complex.

Each sensor is identified by the area in which it measures the temperature.

The user can label (name) the sensors as he wishes and define an offset to each sensor. Thus, if the user assigns the label «Olympic pool» to the sensor in the main pool area then the sensor will appear as «Olympic pool» on all the sensor information pages. 2 sensors cannot have the same label. .

It is possible to apply an offset (from -9.9 to +9.9 °C) to each one of the sensors. For example: if a sensor measures a temperature of 20°C and was assigned an offset of +5 then the temperature displayed on the Aquastyle will be +25°C.

- Display of at least one Bodet Information page: the Home page.
- The maximum number of Sensor Information pages depends on the number of declared sensors (up to a max of 15).
- The maximum number of Free Information pages is 20.

1 Tool bar:

3 buttons that allow quick access to the Welcome screen, to the Page Selection and Sequence Saving screen or exit the application.

2 Pages default properties:

Scrolling lists that let you set for the new pages, the display duration, the pages background colour, the font with its size and colour.

3 Sensor display:

Table listing the installed temperature sensors with the possibility to assign labels and offsets to them.

4 List of the sequence pages:

List of all the pages presently created. The choice of which particular pages to display and the sequence in which they'll be displayed is done on the Pages Selection screen.

5 Preview window:

A preview of the page selected from the list (4) is displayed in this window. The page can be modified or deleted « Modify » and « Delete » buttons.

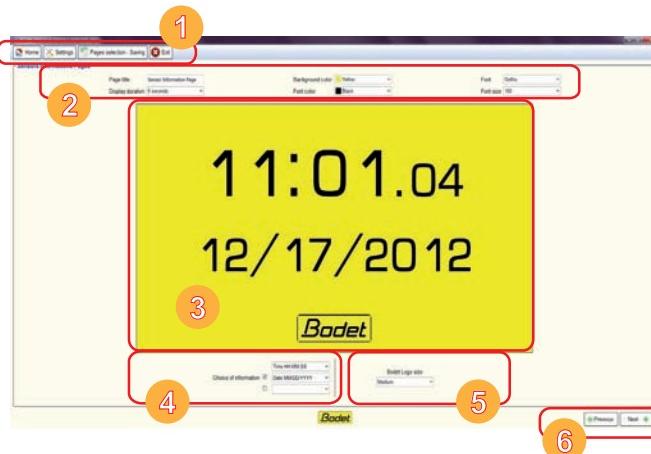
6 Add page in the sequence:

A button and a counter are assigned to each type of page: Sensor Info or Free Info. The buttons are used to add pages and the counters show the available number of pages.

7 Browsing buttons :

These 2 buttons lets you browse through the application one step at a time.

Create / modify your display sequence. Sensor Information pages screen



1 Tool bar:

4 buttons that allow a quick access to the Welcome screen, to the Parameter setting screen, to the Page Selection and Sequence Saving screen or let you exit the application.

2 Page properties:

General properties of the page. It is possible to assign a name to the page, to select the type, colour and size of the font to be used and to select the background colour and the duration of the display of the page.

3 Preview of the page:

Window that lets you see how the page will look like when the page is displayed on the Aquastyle video display.

4 Selection of information:

Selection of one to three lines of data and the type (time or temperature).

5 Size of the Bodet logo:

Select the size of the logo within a scrolling list

6 Browsing buttons:

These 2 buttons lets you browse through the application one step at a time.

Unlike the Sensor Information pages, the name of the Home page cannot be modified.

A Sensor Information page can display up to 3 lines of information therefore up to 3 different sensors at a time.

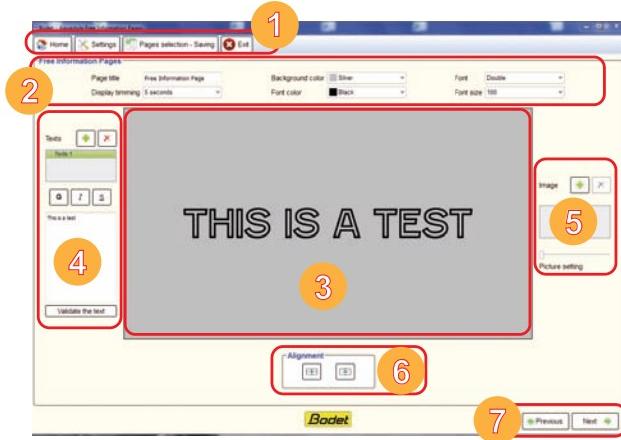
At least one line and no less can be displayed and there are check boxes that allow displaying of a 2nd and 3rd line. .

3 scrolling lists let you select the information to be displayed which can be of 3 types: time, date and temperatures (only Celsius unit displayed by default the following way: 00.0°C).

Time can be displayed under 2 forms (HH:MM and HH:MM.SS), but only on the first line. On the welcome page the first line can only display the time or the date.

There cannot be duplicates of temperature (from the same sensor) on the same page but it is possible to display the same temperature on different Sensor Information pages

Free Information pages screen



1 Tool bar:

4 buttons that allow a quick access to the Welcome screen, to the Parameter setting screen, to the Page Selection and Sequence Saving screen or let you exit the application.

2 Page properties:

General properties of the page. It is possible to assign a name to the page, to select the type, colour and size of the font to be used and to select the background colour and the duration of the display of the page.

3 Preview of the page:

Window that lets you see how the page will look like when the page is displayed on the Aquastyle video display.

4 Text management:

2 buttons let you add or remove texts. You can select a text among a list and edit it in the writing window. .

5 Image management:

2 buttons let you add or remove an image or PDF.

A cursor let adjust the size of the image.

6 Text alignment:

2 buttons let you align the text vertically and horizontally.

7 Browsing buttons:

These 2 buttons lets you browse through the application one step at a time.

The «Free Information» pages can contain up to 8 elements (4 texts and 4 images, or 4 texts and one page in the pdf format), called objects. The format of the text (font, size and colour), the background colour and the duration of the display of the page within the sequence can be modified using the scrolling lists.

2 buttons let you align vertically and horizontally the various elements.

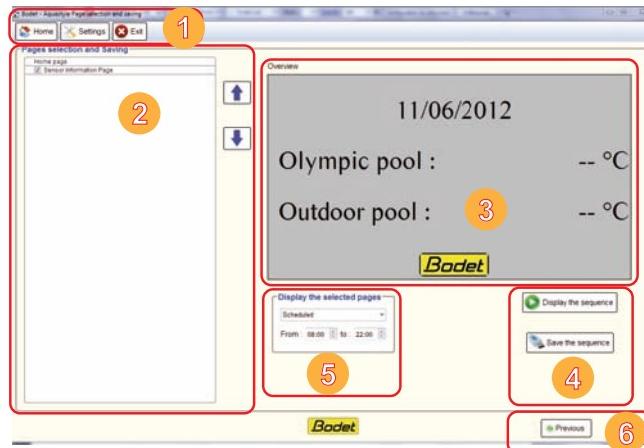
The supported image formats are: jpeg, bmp, png and pdf (pdf one page).

The total size of images for the whole application cannot exceed 100MB.

To achieve a full screen display on the Aquastyle video display, the image must be in the 16/9 format.

Save your display sequence.

Page Selection and Sequence Backup screen



The last step of the editing process is to organize the sequence in which the selected pages will be displayed.

The list of available pages is displayed in the left window (2) and when selected, a preview of the sequence is displayed in the overview window (3).

2 buttons let you move the selected page up or down within the sequence. The selected page can also be moved by the «drag and drop» action.

Exception: the Home page cannot be moved and will always remain in the first position.

It is possible to choose not to display some pages by checking the pages. This option allow the user to create pages ahead of time or to save pages that would be displayed later on (special events, pools closing, draft of pages, etc.).

You can also preview the sequence before saving it by using the button (4) «Display the sequence».

It is possible to schedule the display of the sequence during a particular time frame or permanently.

If the USB flash drive is removed during the page edition then the sequence cannot be saved, The flash drive must be reinserted in the same USB port than the one used when creating the Home page. Press the button (4) «Save the sequence» to save the sequence in the USB flash drive. A pop-up dialogue box confirms that the sequence has been saved and ask the user if he (she) wishes to create a backup copy in the PC.

Note: if the user wishes to have several recurrent types of display (displays geared toward schoolchildren, retired people ...) the user must save each sequence on individual USB flash drive and load the sequence before use.

1 Tool bar:

3 buttons that allow a quick access to the Welcome screen, to the Parameter Setting screen, or let you exit the application..

2 List of the pages:

List of the pages that lets you select and organize the sequence in which the pages will be displayed

3 Overview:

Preview of the page selected within the list and preview of the whole sequence in simulation mode.

4 Display and save the sequence buttons:

2 buttons that let you simulate the sequence in the preview window and save the sequence into the USB flash drive and the user PC.

5 Display the selected pages:

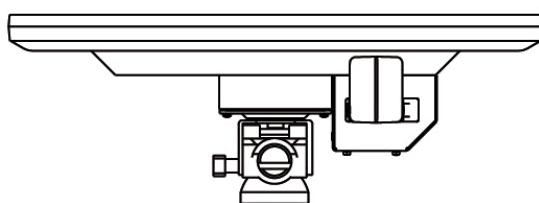
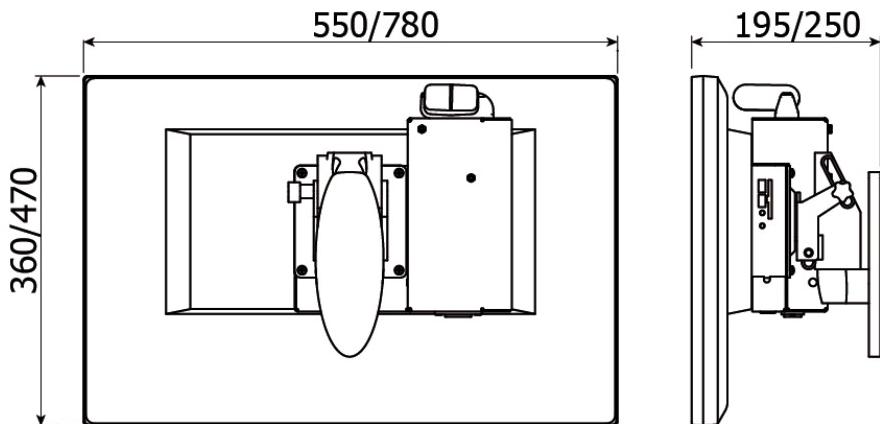
The sequence can be displayed permanently or on a schedule.

6 Browsing button:

This button lets you go back to the previous page.

VI - Technical characteristics

Designation	Characteristics
Power supply	115V / 230V -10/+6% 50/60HZ
Consumption :	-22" display: 300 mA at 230V (600 mA at 115V). -32" display: 700 mA at 230V (1,4A at 115V).
Electrical Insolation	Class I
HF radio frequency / Coverage	869 MHz / 100 m maxi in swimming pool building
Parameters saving in case of power loss	Permanent
Operating temperature range	-0°C à +40°C
Protection index	IP 20 / IK 07
Time base accuracy	≤ 0,2 sec/day at 25°C
Weight	22" display: 8,7 kg / 32" display: 16,5 kg



Wall mounting type
VESA 100

VII - What to do if ... ?

What to do if ...?	Check ...
When turning on the power the display does not start.	<ul style="list-style-type: none"> - Check the status of the green LED on the mini PC. LED off = No power. Check the presence of mains - Check that the blue LED of the LCD screen power button is on. LED off = press the power button to turn on the LCD screen - Insert the USB flash drive to reload the sequence - If still not OK call BODET.
Drift of the time base	Install a DHF synchronisation with a Nanotime master clock or perform the pairing (see page 6)
The radio pictogram is blinking.	Loss of synchronisation with the master clock after a restart, a power failure or a period > 24h without reception.
The sequence remains stuck on the same information page	Turn off the main power.
The displayed time and/or the date are incoherent	Turn off the main power.

Programming memo of the installation:

Sensor physical address	Areas (logical names)	Labels (displayed names)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Appendix 1 - Pairing procedure

If channel 1 is used by another application, it is possible to assign a different channel.

Put the video display in INIT mode (see procedure below).

Change the transmission channel of the master clock and put it in the INIT mode.



The HF receiver has a Reed relay inside.

To pair the receiver with the master clock bring a magnet near the receiver..

When the magnet is brought near the receiver, the red LED starts blinking rapidly (100ms ON / 100ms OFF).

Keep the magnet near the Reed relay for at least 3 sec. or until the Led starts blinking more slowly (500ms ON / 500ms OFF) then the receiver will try to synchronise itself with a transmitter that is itself in the INIT mode.

When the synchronisation is achieved the LED blinks at a rate of 1 second (50ms ON / 950ms OFF).

If needed (change of the transmitter channel, new installation, ...), the same method can be used to put the video display in the INIT mode.



Synoptic of an Aquastyle installation

